

In the Claims

Please Amend the Claims as follows:

1. (Previously Amended) An adsorption apparatus for treatment of wastewater comprising, in combination:
 - an inlet for the wastewater connected to a metals trap which adsorbs metals; and
 - a second trap which filters organic materials from the wastewater, positioned between the inlet and the metals trap, wherein the second trap at least partially comprises fish bone char.
2. (Original) The adsorption apparatus of claim 1 further comprising a pH controller, adjusting the pH of the wastewater to a predetermined range.
3. (Original) The adsorption apparatus of claim 2 wherein the predetermined range is pH 5.5-7.5.
4. (Original) The adsorption apparatus of claim 1 further comprising a first trap positioned between the inlet and the second trap which filters solids from the wastewater of greater than a predetermined size.

5. (Original) The adsorption apparatus of claim 4 wherein the predetermined size is about 5 microns.

6. (Original) The adsorption apparatus of claim 4 wherein the first trap comprises at least one of silica sand, charcoal, and coal.

7. (Currently Amended) An adsorption apparatus for treatment of wastewater comprising, in combination:

an inlet for the wastewater connected to a metals trap which adsorbs metals; and

a second trap which ~~filters~~ adsorbs organic materials and metals from the wastewater, positioned between the inlet and the metals trap, wherein the second trap at least partially comprises ~~an insoluble~~ a phosphate having a particle size of 4 to 34 mesh.

8. (Currently Amended) ~~The adsorption apparatus of claim 7 wherein the second trap contains bone char~~ An adsorption apparatus for treatment of wastewater comprising, in combination:

an inlet for the wastewater connected to a metals trap which adsorbs metals;

a second trap which adsorbs organic materials and metals from the wastewater, positioned between the inlet and the metals trap, wherein the second trap at least partially comprises a phosphate;

a chamber containing the metals trap and a second chamber containing the phosphate, wherein a flow of wastewater travels from the inlet to the metals trap;

a plurality of valves for each chamber, controlled by a corresponding controller in one of an operational mode and a diagnostic/service mode; and

a drain positioned on each chamber and at least one valve on each chamber; wherein in the diagnostic/service mode each chamber can be isolated from the flow of wastewater and the corresponding drain can be opened, permitting flow through the drain.

9. (Currently Amended) ~~The adsorption apparatus of claim 8 wherein the the insoluble phosphate has a particle size greater than a mesh of 20/60~~ An adsorption apparatus for treatment of wastewater comprising, in combination:

an inlet for the wastewater connected to a metals trap which adsorbs metals;

a second trap which adsorbs organic materials and metals from the wastewater, positioned between the inlet and the metals trap, wherein the second trap at least partially comprises a phosphate; and

an oxidizer incorporated as part of at least one of the metals trap and the second trap.

10. (Original) The adsorption apparatus of claim 1 further comprising activated carbon in at least one of the second trap and the metals trap.

11. (Original) The adsorption apparatus of claim 1 wherein the metals trap comprises a metal oxyhydroxide.

12. (Original) The adsorption apparatus of claim 1 further comprising an additional oxidizer incorporated as part of at least one of the metals trap and the second trap.

13-20. (Withdrawn)